



Comparison of MetAP2 Homologues (mouse = SEQ ID NO:13; rat = SEQ ID NO:17;
human = SEQ ID NO:12; yeast = SEQ ID NO:14)

1	15	16	30	31	45	46	60	61	75	76	90
mouse	MAGVEQAASFGGHLN	GDLDPDDREEGTSST	AEEAAKKRRKKKKG	KGAVSAVQQLDKES	GALVDEVAKQLERQA	LEEKERDDDDDEGDG	90				
rat	MAGVEEAASSFGGHLN	RDLDPDDREEGTSST	AEEAAKKRRKKKKG	KGAVSAGQQLDKES	GTSVDEVAKQLERQA	LEEKEKDDDDDEGDG	90				
human	MAGVEEVAASGSHLN	GDLDPDDREEGAAS	AEEAAKKRRKKKKK	KGPSAAGEQEPDKES	GASVDEVARQLERSA	LEDKERDEDDDEGDG	90				
yeast	-----	-----	-----	-----	-----	-----	38				
91	105	106	120	121	135	136	150	151	165	166	180
mouse	DADGATGKKKKKKK	KRGPKVQTDPPSPVI	CDLYPNGVFPGQEC	EYPPTQDGRATAAWRT	TSEKKALDQASEEI	WNDFREAAEAHRQVR	180				
rat	DGDGAAGKKKKKKK	KRGPRVQTDPPSPVI	CDLYPNGVFPGQEC	EYPPTQDGRATAAWRT	TSEKKALDQASEEI	WNDFREAAEAHRQVR	180				
human	DGDGATGKKKKKKK	KRGPKVQTDPPSPVI	CDLYPNGVFPGQEC	EYPPTQDGRATAAWRT	TSEKKALDQASEEI	WNDFREAAEAHRQVR	180				
yeast	ESKKKKKKKKKKKK	N-----	-----	-----	-----	-----	116				
181	195	196	210	211	225	226	240	241	255	256	270
mouse	KYVMSWIKPGMTMIE	ICEKLEDCSRKLIKE	NGLNAG-----	LA	FPTGCSLNCAAAHYT	PNAGDTVLQYDDIC	KIDFGTHISGRIIDC	263			
rat	KYVMSWIKPGMTMIE	ICEKLEDCSRKLIKE	NGLNAG-----	LA	FPTGCSLNCAAAHYT	PNAGDTVLQYDDIC	KIDFGTHISGRIIDC	263			
human	KYVMSWIKPGMTMIE	ICEKLEDCSRKLIKE	NGLNAG-----	LA	FPTGCSLNCAAAHYT	PNAGDTVLQYDDIC	KIDFGTHISGRIIDC	263			
yeast	RAIKDRIVPGMKLMD	IADMIENTTRKYTGA	ENLLAMEDPKSQGIG	FPTGLSLNHCAAHFT	PNAGDKTVLKYEDVM	KVDYGVQVNGNIIDS	206				
271	285	286	300	301	315	316	330	331	345	346	360
mouse	AFTVTENPKYDILLT	AVKDATNTGKICAGI	DVRLCDVGEAIEQVM	ESYEVEIDGKTYQVK	PIRNLNGHSIGPYRI	HAGKTVPIVKGGEAT	353				
rat	AFTVTENPKYDILLK	AVKDATNTGKICAGI	DVRLCDVGEAIEQVM	ESYEVEIDGKTYQVK	PIRNLNGHSIGPYRI	HAGKTVPIVKGGEAT	353				
human	AFTVTENPKYDILLK	AVKDATNTGKICAGI	DVRLCDVGEAIEQVM	ESYEVEIDGKTYQVK	PIRNLNGHSIGPYRI	HAGKTVPIVKGGEAT	353				
yeast	AFTVSFDPQYDNLILA	AVKDATYTGTGKEAGI	DVRLTDIGEAIQVM	ESYEVEINGETQYQVK	PCRNLCGHSIAPYRI	HGGKSVPIVKNQDIT	296				
361	375	376	390	391	405	406	420	421	435	436	450
mouse	RMEEGEVYAIETFGS	TGKGVVHDDMECSHY	MKNFVGVHVPRLPR	TKHLNININENFGTL	AFCCRWLDRLGESKY	LMALKNLCDLGIQVDP	443				
rat	RMEEGEVYAIETFGS	TGKGVVHDDMECSHY	MKNFVGVHVPRLPR	TKHLNININENFGTL	AFCCRWLDRLGESKY	LMALKNLCDLGIQVDP	443				
human	RMEEGEVYAIETFGS	TGKGVVHDDMECSHY	MKNFVGVHVPRLPR	TKHLNININENFGTL	AFCCRWLDRLGESKY	LMALKNLCDLGIQVDP	443				
yeast	KMEEGEHAETFGS	TGRGYVTAGEVSHY	ARSAEDHQVMTLDS	AKNLLKTIDRNFGLT	PFCCRYLDRLGQEKY	LFALNNLVRHGLVQD	386				
451	465	466	480								
mouse	YPPLCDIKGSYTAQF	EHTILLRPTCKEWS	RGDDY---	478							
rat	YPPLCDIKGSYTAQF	EHTILCAQPVKKLSA	EEMTIKT	480							
human	YPPLCDIKGSYTAQF	EHTILLRPTCKEWS	RGDDY---	478							
yeast	YPPLNDIPGSYTAQF	EHTILLHAHKKEWS	KGDDY---	421							

Figure 1



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MetAP2

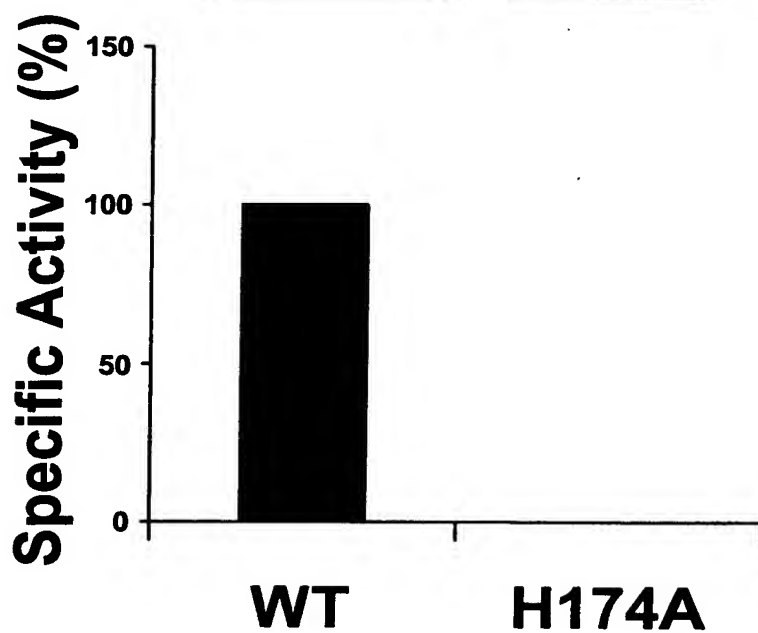
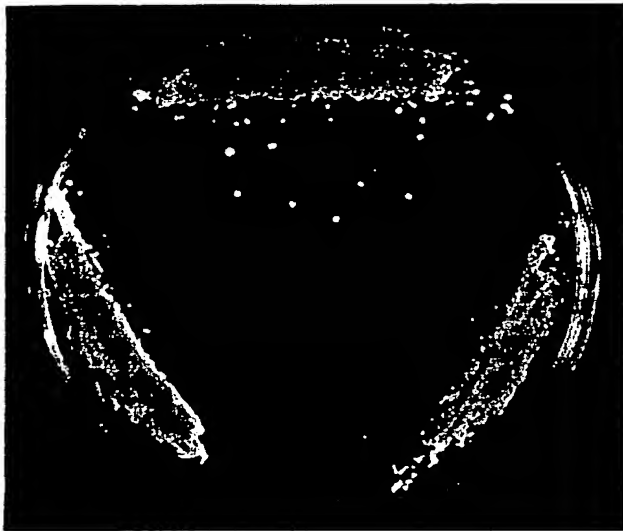


Figure 2

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A. Glucose



B. Galactose

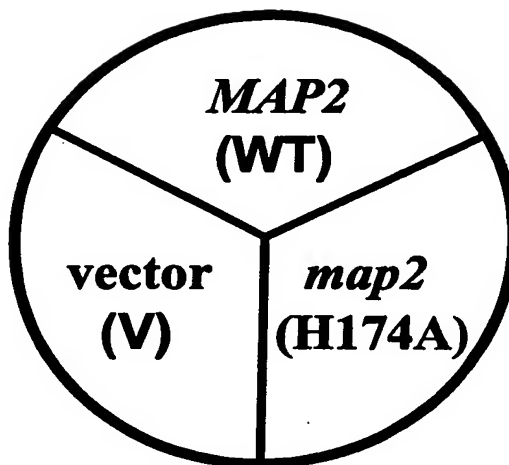


Figure 3

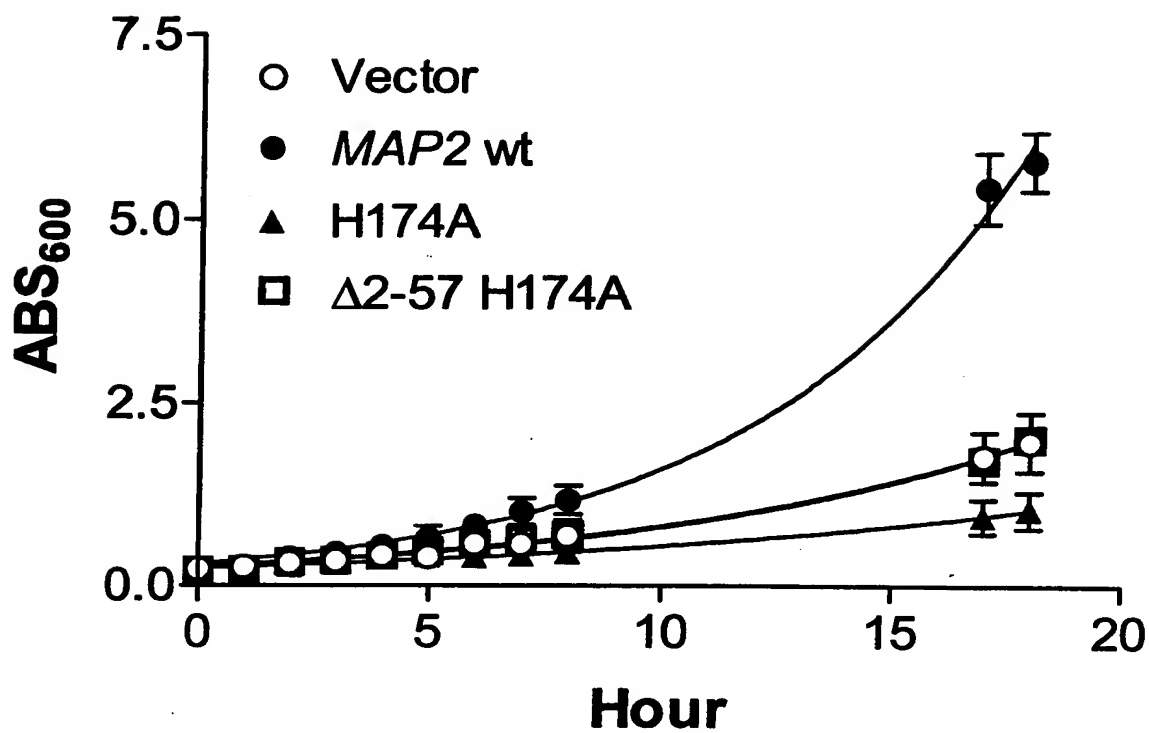
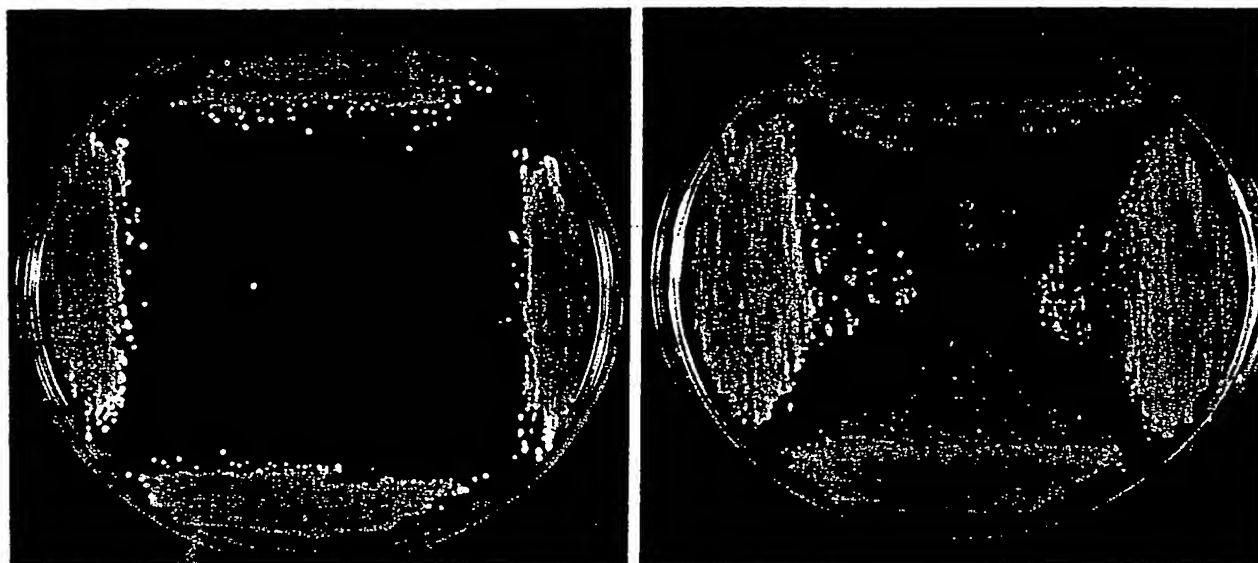


Figure 4

Title: Dominant Negative Variants of Methionine
Aminopeptidase 2 and Clinical Uses Therefor
Inventor(s): Chang et al.
Appln. No. 10/712,359
Docket # 66153/45004

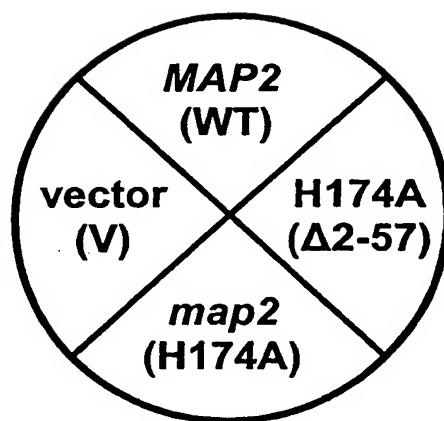
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A. Glucose

B. Galactose



H174A-MetAP2 requires N-terminal residues 2-57 for inhibition of *map1 Δ* growth under the GAL1 promoter.

Figure 5

Title:

Dominant Negative Variants of Methionine
Aminopeptidase 2 and Clinical Uses Therefor

Inventor(s):

Chang et al.

Appln. No.

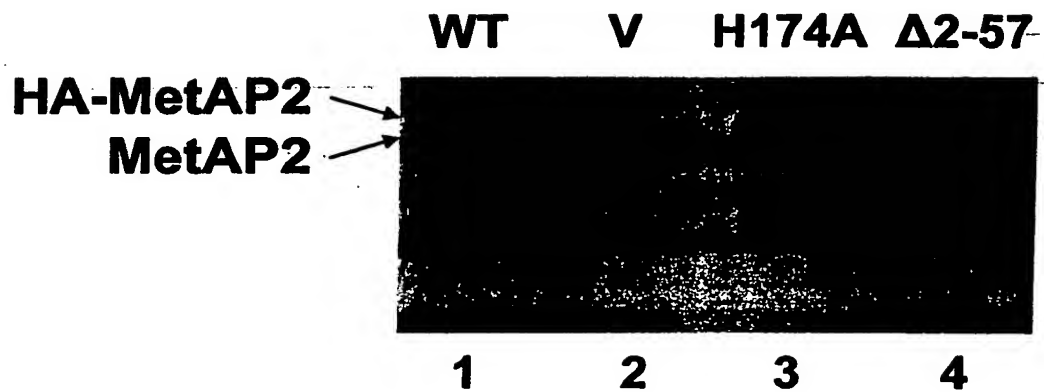
10/712,359

Docket #

66153/45004

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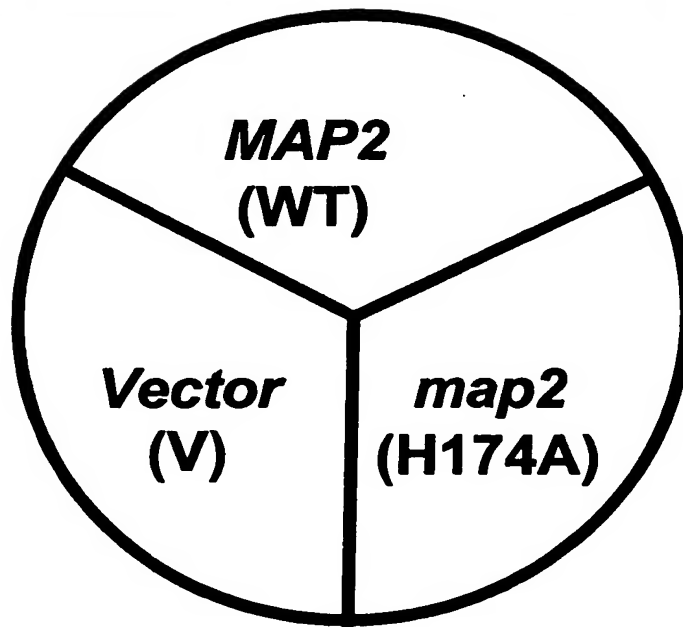
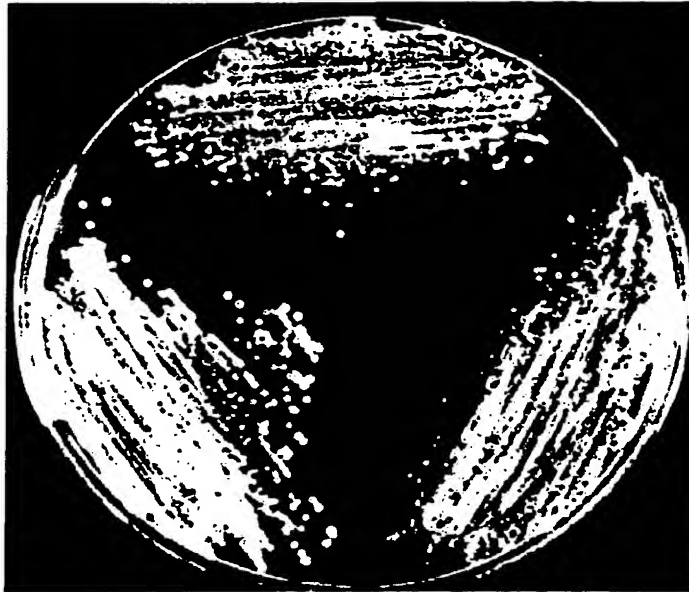
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The steady levels of each MetAP2 construct are comparable. Immunoblot comparison of HA-MetAP2 wt, HA-MetAP2 H174A, and MetAP2 Δ 2-57 H174A steady state levels in map1 Δ .

Figure 6

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Overexpression of H174A-MetAP2 under the GPD promoter does not inhibit the growth of *map2Δ*

Figure 7

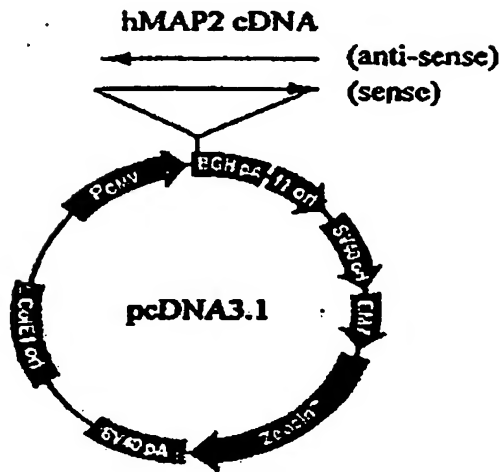


Figure 8

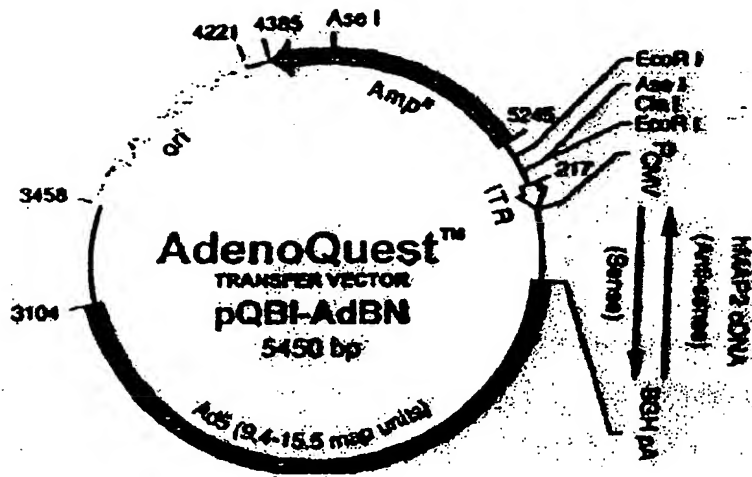


Figure 9

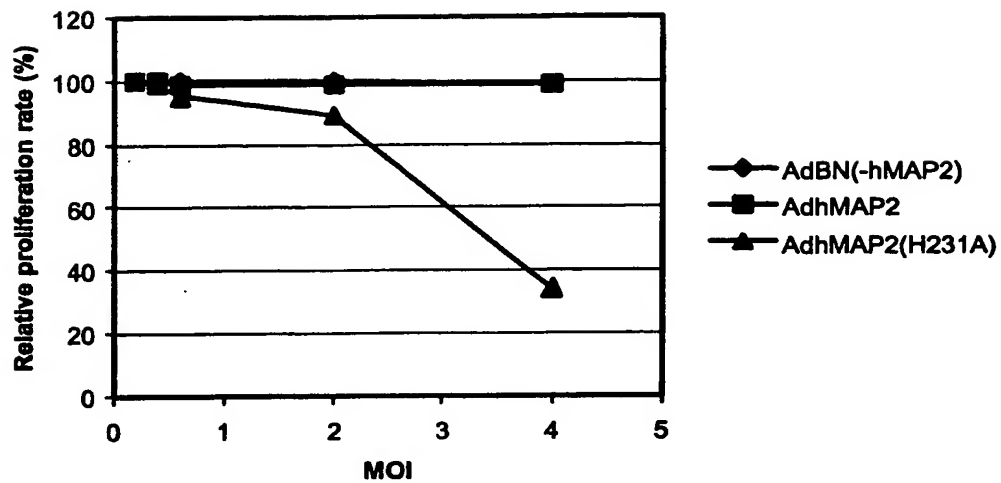


Figure 10

Title:

Dominant Negative Variants of Methionine
Aminopeptidase 2 and Clinical Uses Therefor

Inventor(s):

Chang et al.

Appln. No.

10/712,359

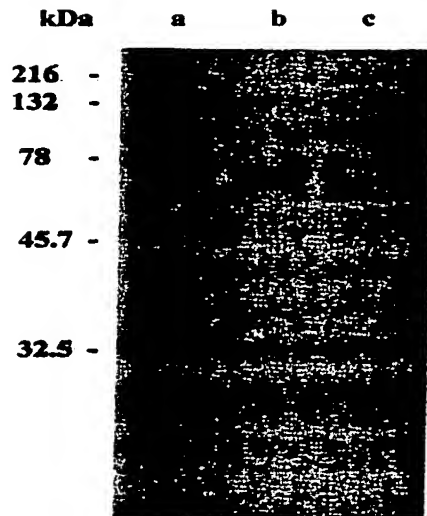
Docket #

66153/45004

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A



B

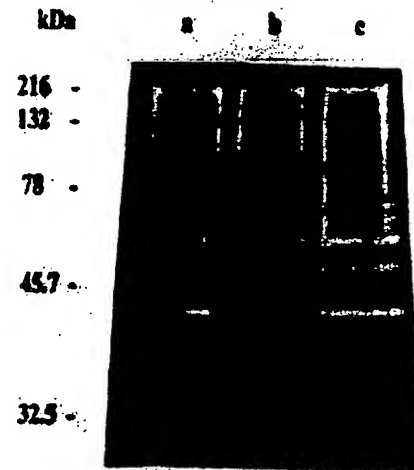


Figure 11